

7-WEEK PROJECT ROADMAP FOR GREATER MANCHESTER ARTIFICIAL INTELLIGENCE & CYBERSECURITY ECOSYSTEM MAP

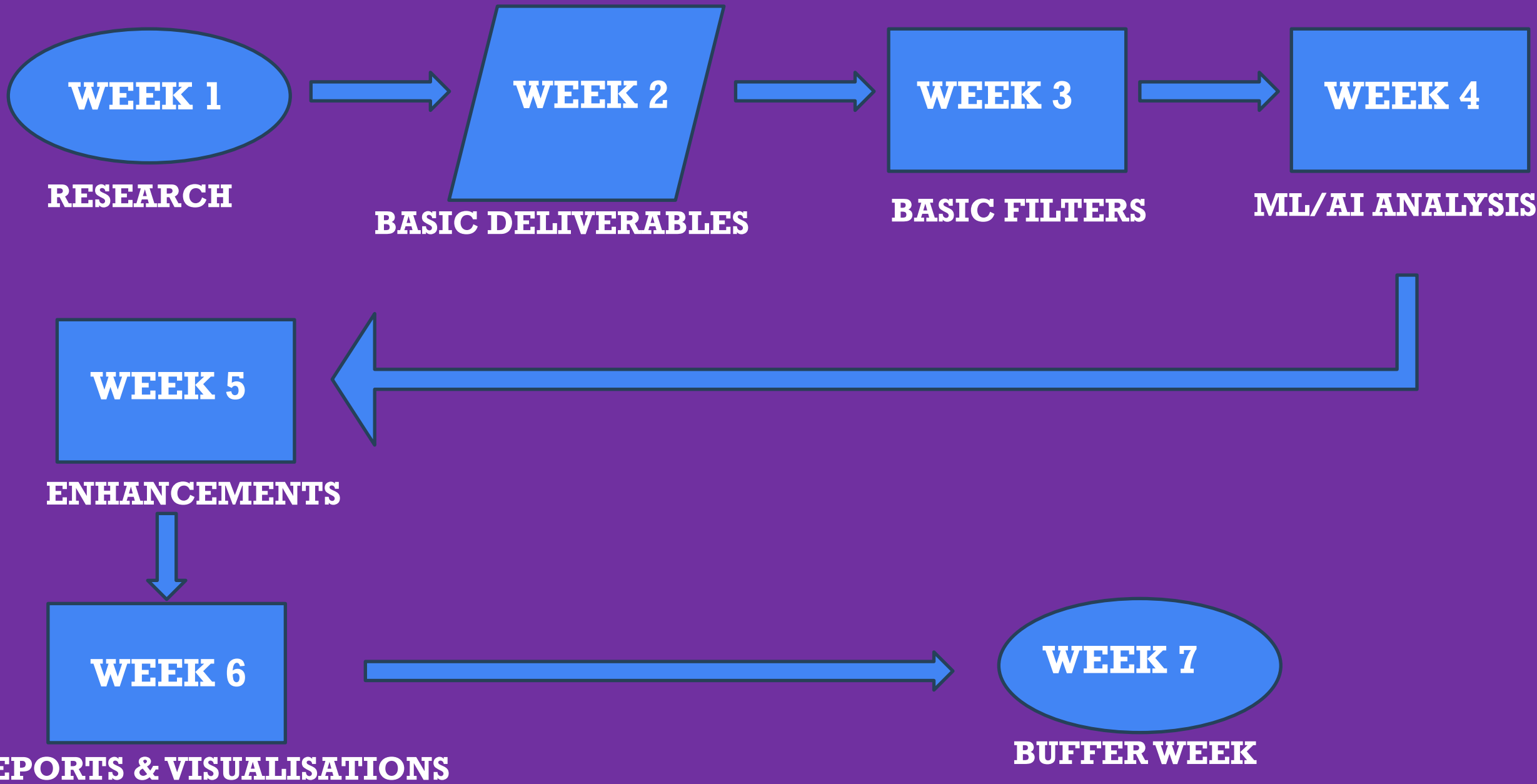
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Date: 7 March 2025**

PROJECT OVERVIEW

- **Goal: Build an AI-powered ecosystem dashboard for cybersecurity and AI industries in Greater Manchester.**
- **Generate real-time insights using data from Datacity, Companies House, and Web Scraping.**
- **Provide interactive visualisations and AI-driven analytics for stakeholders.**

The Roadmap

WEEK 1



Week 1: Research & Planning

- **Understand data sources (Datacity, Companies House, Web Scraping).**
- **Define system architecture (Data pipeline → AI → API → frontend).**
- **Finalise tech stack (Python, Flask).**

Week 2: Basic Deliverables

- **Implement API calls & web scraping.**
- **Store structured/unstructured data in PostgreSQL/MongoDB.**
- **Automate data collection using Airflow/Prefect.**
- **Build a Basic MVP**

Week 3: Basic Filters & API Implementation

- **Implement filters (sector, funding, location).**
- **Clean and normalise data for AI processing.**

Week 4: ML/AI Analysis

- **Apply NLP for industry insights (spaCy, NLTK).**
- **Implement clustering models (K-Means, DBSCAN).**
- **Develop predictive analytics for industry trends.**

Week 5: Enhancements (AI, Backend, UI)

- **Optimise AI models and improve accuracy.**
- **Enhance API security and database performance.**
- **Start integrating UI with Backend**

Week 6: Reports & Visualisations

- **Develop interactive network graphs & heatmaps.**
- **Implement automated AI-generated reports.**
- **Enhance user experience with customizable dashboards.**

Week 7: Buffer Week (Testing & Deployment)

- **Test API endpoints and UI components.**
- **Deploy full-stack application on AWS/Azure.**
- **Ensure security best practices are implemented.**

Conclusion



Thank you!